Semester	**4**
Course	**SKILL**
Paper Code	**S2CS230411P**
Paper Title	**PYTHON PROGRAMMING**
No. of Credits	**3**
Theory / Practical / Composite	**PRACTICAL**
Minimum No. of preparatory hours per week a student has to devote	5
Number of Modules	One
Syllabus	1. Introduction to Python Programming 2. Operators, Expressions and Python Statements 3. Control statements (decision making and iterative) 4. Set, Tuple, List, Dictionary 5. Data Types 6. Arrays in Python using NumPy and Pandas Libraries 7. Functions and parameterized functions 8. Handling graphs using matplotlib 9. File Handling 10. Scope and Modules
Learning Outcomes	1. Learn the programming paradigm of Python 2. Discover different data types and functions. 3. Learn the basic difference between Lists, Tuples and Dictionaries 4. Learn different libraries used in Python. 5. Acquire skills to work with data sets. 6. Visualize data with respect to results using matplotlib library. 7. Learn Classification, Clustering and Association of data. 8. Predict data based on some present datasets
Reading/Reference Lists	1. Python: The Complete Reference by Martin C. Brown, McGraw Hill Education 2. Head First Python by Paul Barry, O'Reilly 3. Python Programming: Using problem solving approach by Reema Thareja, Oxford. 4. Core Python Programming by R. Nageswara Rao, DreamTech. 5. https://onlinecourses.swayam2.ac.in/cec22_cs20/preview
Evaluation	PRACTICAL EXAMINATION	